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FAS Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1676a

Product Information

Application	WB, FC, ICC, E
Primary Accession	P25445
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4F8H6
Isotype	IgG1
Calculated MW	37732
Description	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contains a death domain. It has been shown to play a central role in the physiological regulation of programmed cell death, and has been implicated in the pathogenesis of various malignancies and diseases of the immune system. The interaction of this receptor with its ligand allows the formation of a death-inducing signaling complex that includes Fas-associated death domain protein (FADD), caspase 8, and caspase 10. The autoproteolytic processing of the caspases in the complex triggers a downstream caspase cascade, and leads to apoptosis. This receptor has been also shown to activate NF-kappaB, MAPK3/ERK1, and MAPK8/JNK, and is found to be involved in transducing the proliferating signals in normal diploid fibroblast and T cells. Several alternatively spliced transcript variants have been described, some of which are candidates for nonsense-mediated mRNA decay (NMD). The isoforms lacking the transmembrane domain may negatively regulate the apoptosis mediated by the full length isoform.
Immunogen	Purified recombinant fragment of human FAS expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	355
Other Names	Tumor necrosis factor receptor superfamily member 6, Apo-1 antigen, Apoptosis-mediating surface antigen FAS, FASLG receptor, CD95, FAS, APT1, FAS1, TNFRSF6
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions	FAS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FAS
Synonyms	APT1, FAS1, TNFRSF6
Function	Receptor for TNFSF6/FASLG. The adapter molecule FADD recruits caspase CASP8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs CASP8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen- stimulated suicide of mature T-cells, or both. The secreted isoforms 2 to 6 block apoptosis (in vitro).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Membrane raft [Isoform 3]: Secreted. [Isoform 5]: Secreted.
Tissue Location	Isoform 1 and isoform 6 are expressed at equal levels in resting peripheral blood mononuclear cells. After activation there is an increase in isoform 1 and decrease in the levels of isoform 6.

References

Am J Hum Genet. 2009 Nov;85(5):628-42 Int J Surg Pathol. 2010 Dec;18(6):493-8

Images

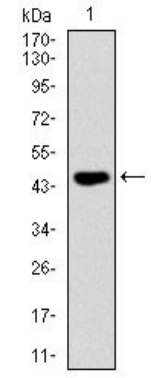


Figure 2: Western blot analysis using FAS mAb against human FAS (AA: 87-278) recombinant protein. (Expected MW is 47.2 kDa)

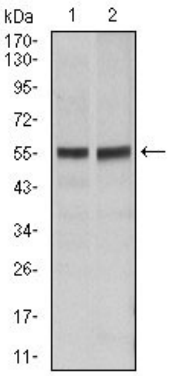
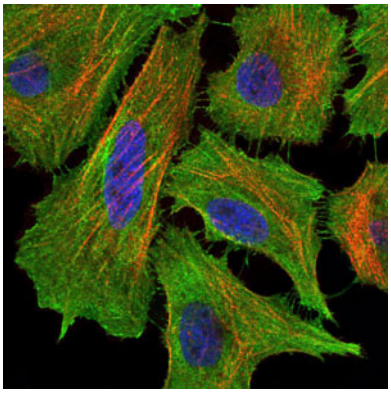


Figure 3: Western blot analysis using FAS mouse mAb against Hela (1), Jurkat (2) cell lysate.

Figure 4: Immunofluorescence analysis of Hela cells using FAS mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

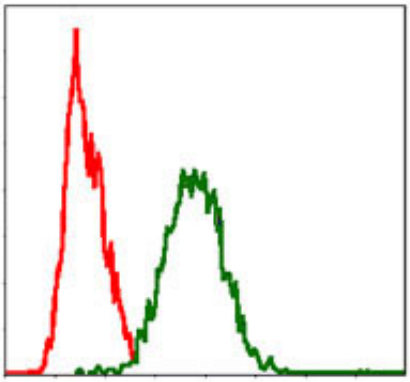


Figure 5: Flow cytometric analysis of Hela cells using FAS mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.